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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/712,663	11/13/2003	Kuo-Hsiung Lee	5470-397	2599	
7590 10/31/2005			EXAMINER		
Kenneth D. Si	bley	OWENS, AMELIA A			
Myers Bigel Sil	bley & Sajovec c 37428	ART UNIT	PAPER NUMBER		
Raleigh, NC 27627			1625		
			DATE MAILED: 10/31/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)	
		10/712,66	. 3	LEE ET AL.	
Office Action Summary		Examiner		Art Unit	
		Amelia A. 0	Owens	1625	
	The MAILING DATE of this commu	nication appears on the	cover sheet with the	e correspondence address	**
	or Reply				
WHIC - Exte after - If NC - Failu Any	CHEVER IS LONGER, FROM THE Nensions of time may be available under the provision of SIX (6) MONTHS from the mailing date of this come of period for reply is specified above, the maximum sure to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF TH ns of 37 CFR 1.136(a). In no eve nmunication. statutory period will apply and will ply will, by statute, cause the appli	IIS COMMUNICATION OF THE STATE	ON. It imply filed om the mailing date of this communic NED (35 U.S.C. § 133).	
Status					
1)⊠	Responsive to communication(s) fil	led on 12 August 2005.			
2a)□		2b)⊠ This action is no		•	
3)□		n for allowance except	for formal matters, p	prosecution as to the merit	ts is
•	closed in accordance with the pract	tice under Ex parte Qua	<i>ayle</i> , 1935 C.D. 11,	453 O.G. 213.	
Dienoeit	tion of Claims			•	
· _		nonding in the applicat	ion		
4)[2]	Claim(s) <u>1-3,6-20 and 22-28</u> is/are 4a) Of the above claim(s) is/s	·			
5)⊠	Claim(s) <u>1-3,6-12,22 and 23</u> is/are		isideration.		
·	Claim(s) 13 and 24 is/are rejected.	*			
·	Claim(s) <u>14-20 and 25-28</u> is/are ob				
8)□			equirement.		•
A !! 4	dan Danana				
	tion Papers		•		•
•	The specification is objected to by the		ahiostad ta hy th	o Everniner	
10)	The drawing(s) filed on is/are Applicant may not request that any obje	, ,	•		
	Replacement drawing sheet(s) including				21(d).
11)	The oath or declaration is objected	-		•	
, —	•	·			
_	under 35 U.S.C. § 119				
•	Acknowledgment is made of a claim	n for foreign priority und	ler 35 U.S.C. § 119	(a)-(d) or (f).	
a)	All b) Some * c) None of:		id		
	1. Certified copies of the priority2. Certified copies of the priority			ation No	
	2. Certified copies of the priority3. Copies of the certified copies				
	application from the Internati	• •		ived in this readonal etage	,
* (See the attached detailed Office action	•		ived.	
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Attachmer 1 \ ⊠ Notic	nt(s) ce of References Cited (PTO-892)		4) Interview Summa	on//PTO 412\	•
	ce of Braftsperson's Patent Drawing Review ((PTO-948)	Paper No(s)/Mail	Date	
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 of Properties of Pto-1449	or PTO/SB/08)	5) Notice of Informa 6) Other:	al Patent Application (PTO-152)	

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DETAILED ACTION

1. Claims 4,5,21 have been canceled. New claims 22-28 have been added. Claims 1-3,6-20,22-28 are pending.

Claim Rejections - 35 USC § 102

2. The rejection of claim 1,4,11-13,19-20 rejected under 35 U.S.C. 102(b) is dropped as the claims have been canceled and/or amended.

Double Patenting

3. The rejection of claims 1-5,11-20 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over U.S. Patent No. 6566393 is dropped as a terminal disclaimer has been filed and accepted.

Claim Rejections - 35 USC § 112

4. Claims 13,24 remain rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for lung cancer, stomach cancer, esophageal cancer, colon cancer, breast cancer, liver cancer, prostate cancer, Kaposi's sarcoma, testicular cancer, ovarian cancer, endometrial cancer, does not reasonably provide enablement for skin cancer, central nervous system cancer and cancer in the general sense. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims. Applicants' comments have been considered but are not persuasive in view of the following.

The state of the art is that etoposide has been used to treat a variety of neoplasms such as Kaposi's, testicular cancer, lymphoma, leukemia, and small-cell lung. See abstract Kobayashi et al, Pharmacodynamics and long-term toxicity of Etoposide, PMID: 8070030. See also abstract Sinkule, Etoposide: a semisynthetic epipodophyllotoxin. Chemistry, pharmacology, pharmacokinetics, adverse effects and use as an antineoplastic agent. PMID: 6326063. See also Atienza et al, Phase II study of oral Etoposide of patients with advanced breast cancer. PMID: 8625074. See also Zhi, High-grade endometrial stromal sarcoma in a 10-year-old girl: case report. PMID: 9849013.

Etoposide has the following formula:



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The claimed compounds have the following formula:

Structurally similar compounds would be expected to have the same activity. Clearly compounds having the core structure depicted below have been shown to have anti-cancer activity against a variety of cancers. Thus, the claimed compounds would be expected to have the same activity as the prior art compounds.

However, at present time there is no umbrella drug known for treatment of all forms of cancer. Applicants' disclose a therapeutic effect on humans. See specification @ page 5 last paragraph. Proof of such utility is required unless one of ordinary skill in the art would accept the utility statement as obviously valid and correct. Ex parte Ferguson, 117 USPQ 229. It is the examiner's position that the skilled artisan would not accept as correct a method directed to treating all forms of cancer as is presently claimed by applicants. Applicants' are not entitled to more than is reasonably enabled by their specification.

5. Claims 13,24 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The instant methods encompass as yet unidentified and identified forms of cancer a description of which is not found in the specification.

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Claim Objections

Claims 14-20,25-28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amelia A. Owens whose telephone number is 571-272-0690. The examiner can normally be reached on Monday - Friday..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia J. Tsang can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Amelia A. Owens Primary Examiner Art Unit 1625